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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,168	06/23/2004	Woo-Young Lim	51876P637	9193
Blakely Sokolo	7590 12/23/200 ff	EXAMINER		
Taylor & Zafma 7th Floor		CZEKAJ, DAVID J		
12400 Wilshire Boulevard Los Angeles, CA 90025			ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			12/23/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/500,168	LIM ET AL.		
Office Action Summary	Examiner	Art Unit		
	DAVID CZEKAJ	2621		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>05 D</u>	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1,2,5-12 and 15-21 is/are pending in 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,7-12,17,18 and 21 is/are rejected 7) ☐ Claim(s) 5,6,15,16,19 and 20 is/are objected to 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration			
9) The specification is objected to by the Examine	r			
10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some col None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail D 5)  Notice of Informal F 6)  Other:	ate		

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### **DETAILED ACTION**

## Response to Arguments

Upon further consideration, the objectable material previously indicated as allowable has been withdrawn. What follows is an updated rejection of the pending claims.

# Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 7, and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Paek et al. (7143434), (hereinafter referred to as "Paek") in view of Shimoni et al. (4809350), (hereinafter referred to as "Shimoni").

Regarding claim 1, Paek discloses an apparatus that relates to describing multimedia information (Paek: column 1, lines 15-18). This apparatus comprises "a motion picture segmentation means for segmenting a motion picture temporally" (Paek: column 16, lines 29-40, wherein the segmentation is the extraction; column 23, lines 10-17), "a motion picture shape descriptor abstracting means for abstracting a shape descriptor from the segmented motion picture" (Paek: column 9, lines 1-24; column 14, lines 15-21; column 16, lines 30-40, wherein the abstracting is the feature extraction), and "a motion picture storing means for storing the shape descriptors" (Paek: column 17, lines 1-7,

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wherein the shape descriptors are stored in the description record). While Paek fails to explicitly disclose storing the descriptors as metadata, Paek does disclose storing the descriptors and performing a metasearch for the descriptors (Paek: column 17, lines 1-7 and 30-40). However, Paek fails to disclose the specifics of the mean shape descriptor as claimed. Shimoni teaches the calculation of the average standard deviation (Shimoni: column 4, lines 16-30. The examiner notes the claimed equation appears to be an average of standard deviations). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Paek and add the standard deviation calculation taught by Shimoni in order to obtain an apparatus that better helps increase overall uniform video quality by calculating an average of the standard deviations.

Regarding claim 2, Paek discloses "abstracting shape information corresponding to one object from the picture" (Paek: column 16, lines 30-40), "abstracting shape vector descriptor sequence from the shape information" (Paek: column 14, lines 15-20, wherein the sequence is the code element), and "abstracting a shape descriptor from the descriptor sequence" (Paek: column 14, lines 15-20; column 16, lines 19-40, wherein the descriptor is made up of the value and code element).

Regarding claim 3, although not disclosed, it would have been obvious to use a variance or standard deviation shape descriptor (Official Notice). Doing so would have been obvious in order to easily indicate the change in the object.

Regarding claim 7, note the examiners rejection for claim 1, and in addition, although not disclosed, it would have been obvious to multiply the standard deviations by a weight (Official Notice). Doing so would have been obvious in order to better help increase overall uniform video quality.

Regarding claim 12, note the examiners rejections for claims 1-2.

Regarding claim 13, note the examiners rejection for claim 2.

3. Claims 8-11, 17-18, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over et al. (7143434), (hereinafter referred to as "Paek") in view of Shimoni et al. (4809350), (hereinafter referred to as "Shimoni") in further view of Kan et al. (6728314), (hereinafter referred to as "Kan").

Regarding claim 8, note the examiners rejection for claim 1, and in addition Paek discloses "arranging the motion picture shape descriptors in the order of similarity from small to large" (Paek: column 17, lines 35-45; column 18, lines 22-25, wherein the ranking indicates the order of similarity). However, Paek fails to disclose calculating the similarities as claimed. Kan teaches that prior art segmentation techniques cannot solve the problems of still object segmentation and inconvenience (Kan: column 2, lines 6-7). To help alleviate this problem, Kan discloses "calculating the similarity between the first shape descriptor and a second shape descriptor and outputting similar motion pictures" (Kan: column 2, lines 15-27; column 3, lines 28-34; column 6, lines 7-46, wherein the descriptors are compared). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the comparison

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taught by Kan in order to help reduce the inconvenience and help solve the problems of still object segmentation.

Regarding claim 9, note the examiners rejections for claims 1-2 and 8, and in addition, although not disclosed, it would have been obvious to use a second descriptor abstracting means (Official Notice). Doing so would have been obvious in order to provide a faster processing means by using two abstractors.

Regarding claim 10, Paek discloses "classifying the similarity in the order of distance from close to far" (Paek: column 18, lines 20-25 and 40-45; column 23, lines 15-40, wherein the motion and temporal features indicate the distance, the ranking orders the distances).

Regarding claim 11, although not disclosed, it would have been obvious to compute the similarity based on the Euclidian distance or SAD (Official Notice).

Doing so would have been obvious in order to help keep the errors of the distance calculations at a minimum.

Regarding claims 17 and 21, note the examiners rejection for claim 7.

Regarding claim 18, note the examiners rejections for claims 1-2 and 8.

## Allowable Subject Matter

4. Claims 5-6, 15-16, and 19-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID CZEKAJ whose telephone number is (571)272-7327. The examiner can normally be reached on Mon-Thurs and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dave Czekaj/ Examiner, Art Unit 2621